

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 03/01091

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7	C13K1/00	C13K1/08	C13K3/00	C13K7/00	C13K11/00
	C13K13/00	C13D1/00	C13D3/00	C13D3/14	C07H1/06
	C07H3/00				

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C13K C13D C07H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 817 787 A (AMINOFF C ET AL) 18 June 1974 (1974-06-18) the whole document	1,2,5-9, 13,14 3,4,15, 16 10-12
Y	---	
X	US 3 864 406 A (MELAJA ASKO J ET AL) 4 February 1975 (1975-02-04) the whole document	1,2,7-9
A	---	3-6, 10-16
A	US 5 462 864 A (NIIMI MASAHIRO ET AL) 31 October 1995 (1995-10-31) the whole document	1-9, 13-16 10-12
Y	---	
A	US 4 325 742 A (ARENA BLAISE J) 20 April 1982 (1982-04-20) the whole document	1-16

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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

26 May 2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4 816 445 A (MITSUHASHI MASAKAZU ET AL) 28 March 1989 (1989-03-28) the whole document	1-16
A	US 4 487 198 A (MIYAKE TOSHIO ET AL) 11 December 1984 (1984-12-11) the whole document	1-16
A	EP 0 098 352 A (UOP INC) 18 January 1984 (1984-01-18) the whole document	1-16

INTERNATIONAL SEARCH REPORT

Application No
PCT/EP 03/01091

Patent document cited in search report	Publication date		Patent family member(s)	Publication date
US 3817787	A 18-06-1974		AT 63673 A AU 468579 B2 AU 5116873 A BE 794505 A1 BG 20618 A3 CA 987313 A1 CH 581701 A5 CS 188159 B2 DE 2302841 A1 FI 54609 B FR 2169230 A1 GB 1394503 A HU 166156 B IE 37118 B1 IT 977039 B JP 48082048 A NL 7301178 A ,B, SE 394456 B SU 912046 A3 YU 21773 A1 ZA 7300539 A	15-07-1975 15-01-1976 18-07-1974 16-05-1973 05-12-1975 13-04-1976 15-11-1976 28-02-1979 02-08-1973 29-09-1978 07-09-1973 14-05-1975 28-01-1975 11-05-1977 10-09-1974 02-11-1973 30-07-1973 27-06-1977 07-03-1982 28-02-1982 31-10-1973
US 3864406	A 04-02-1975		AT 339274 A AU 474630 B2 AU 6800474 A CH 605501 A5 CS 187416 B2 DE 2418801 A1 DK 146255 B FI 59085 B FR 2227251 A1 GB 1418450 A HU 169624 B IE 39751 B1 IT 1011279 B JP 1203169 C JP 49134851 A JP 58035169 B NL 7405513 A NO 140183 B PL 102624 B1 SE 405595 B SU 582752 A3 ZA 7402439 A	15-11-1977 29-07-1976 23-10-1975 29-09-1978 31-01-1979 28-11-1974 15-08-1983 27-02-1981 22-11-1974 17-12-1975 28-12-1976 20-12-1978 20-01-1977 25-04-1984 25-12-1974 01-08-1983 29-10-1974 09-04-1979 30-04-1979 18-12-1978 30-11-1977 30-04-1975
US 5462864	A 31-10-1995		JP 2119789 A JP 2696537 B2 US 5141859 A	07-05-1990 14-01-1998 25-08-1992
US 4325742	A 20-04-1982		NONE	
US 4816445	A 28-03-1989		JP 1866303 C JP 5069090 B JP 61007214 A JP 1866290 C JP 5052177 B JP 61009257 A JP 1834817 C	26-08-1994 30-09-1993 13-01-1986 26-08-1994 04-08-1993 16-01-1986 11-04-1994

INTERNATIONAL SEARCH REPORT

Int'l Application No
PCT/EP 03/01091

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
US 4816445	A	JP 5043360 B		01-07-1993
		JP 61035800 A		20-02-1986
		JP 1866293 C		26-08-1994
		JP 5077381 B		26-10-1993
		JP 61047166 A		07-03-1986
		AU 582366 B2		23-03-1989
		AU 4396985 A		02-01-1986
		CA 1265516 A1		06-02-1990
		CN 85105158 A ,B		31-12-1986
		DE 3522103 A1		09-01-1986
		DE 3546911 C2		09-01-1997
		FR 2566409 A1		27-12-1985
		GB 2162524 A ,B		05-02-1986
		IT 1181701 B		30-09-1987
		KR 9302890 B1		12-04-1993
US 4487198	A	11-12-1984	NONE	
EP 0098352	A	18-01-1984	US 4429122 A	31-01-1984
			AT 37042 T	15-09-1988
			DE 3377922 D1	13-10-1988
			EP 0098352 A2	18-01-1984
			ES 8503375 A1	01-06-1985
			JP 58193700 A	11-11-1983
			MX 159946 A	09-10-1989